

\*\*\*\* BEGIN LOGGING AT Sat Feb 12 23:47:41 2005

Feb 12 23:47:41 --> You are now talking on #yg  
Feb 13 00:02:53 --> Scotsmaninfrance (user@AC8747BD.ipt.aol.com) has joined #yg  
<Scotsmaninfrance> hi sorry I'm late  
<Doos> hi  
<Scotsmaninfrance> no one else here  
<Doos> gemma may come  
<Scotsmaninfrance> I can't find any references to circular or elliptical polarisation anywhere  
<Doos> so, I had to do a quick reading on circular polarization  
<Scotsmaninfrance> lol  
<Scotsmaninfrance> yes  
<Doos> heh  
<Scotsmaninfrance> how advanced is it all  
<Doos> you couldn't?  
<Scotsmaninfrance> it's not in any of my books  
<Scotsmaninfrance> not on the YG website  
<Doos> well not so, if you leave all the cosine and sine calculations as is  
<Scotsmaninfrance> what do you mean?  
<Doos> the theory behind it is very complex  
<Doos> lots of sine and cosine calculations  
<Doos> not for us commoners  
<Scotsmaninfrance> lol...what is it's reason or purpose as regards gemmology?  
<Doos> not much, the only thing that is related is interference and enantiomorphism  
<Doos> the later being only observed in quartz  
<Scotsmaninfrance> wow... enantiomorphism being what?  
<Doos> quartz grows either left or right handed, symmetry wise .. very advanced topic  
<Scotsmaninfrance> yes I've read about that  
<Doos> it seems to produce some kind of natural circular polarization .. which reflects in it interference  
<Scotsmaninfrance> is this where the bulls eye comes from?  
<Doos> yes  
<Scotsmaninfrance> does left or right handedness affect this?  
<Doos> no, it is uniaxial .. so the interference figure should stay the same  
<Doos> only biaxial gems have changing interference figures  
<Scotsmaninfrance> ok  
<Scotsmaninfrance> how is it usefull?  
<Doos> I believe you can observe that somehow when looking through it .. hope I ever find out how  
<Scotsmaninfrance> observe what...biaxial changing figures?  
<Doos> well if you manage to find out if the stone is left or right handed, it could be diagnostic for natural versus synthetic  
<Scotsmaninfrance> don't both grow naturally?  
<Doos> uh no, the right/left handed circular polarization  
<Scotsmaninfrance> ok  
<Doos> yes, but most synth is right (or left .. I forgot)  
<Scotsmaninfrance> This is the small faces near the termination we are talking about  
<Doos> lol, yes the s-face .. have you been doing your homework?

<Scotsmaninfrance> read it when I was obsessing with crystallography  
<Scotsmaninfrance> do you know the theory of how / what's used to show the change in the interference figure?  
<Scotsmaninfrance> and what the change is  
<Doos> in this case or in general?  
<Scotsmaninfrance> thought it only happened to quartz?  
<Doos> so, this case  
<Scotsmaninfrance> yes  
<Doos> I know a little of the theory behind circular polarization .. which is what this is probably  
<Scotsmaninfrance> is it caused by the crystal structure?  
<Doos> let me roll a smoke while I think of an explanation  
<Doos> uh yes  
<Scotsmaninfrance> lol....me too  
<Doos> light is circular and thus polarized in every direction  
<Doos> if you hold a quarter wave plate between the light and a polarizer .. all individual rays are retarded by 1/4  
<Scotsmaninfrance> ok  
Feb 13 00:32:24 --> CGI-515 (~406c515f@bopm.chatjunkies.org) has joined #yg  
Feb 13 00:32:32 --- CGI-515 is now known as gemma  
<Doos> this is very hard to explain  
<Scotsmaninfrance> hi Gemma  
<Doos> hi gemma  
<gemma> hi hi  
<gemma> is annie sick  
<Scotsmaninfrance> yes it sounds like it's difficult  
<Scotsmaninfrance> yes  
<gemma> shit. ok what is hard to explain  
<Doos> yah she had to let me handle you lot  
<Scotsmaninfrance> circular polarisation  
<gemma> oh. i just read a tidbit about it in crystals and light  
<gemma> i will just sit back and listen  
<Doos> imagine a circle and 3/4 of it is blocked  
<Scotsmaninfrance> Please join in Gemma  
<Scotsmaninfrance> I couldn't find any reference whatsoever to it in any of my books  
Feb 13 00:34:23 --> Will (~18b34dbb@bopm.chatjunkies.org) has joined #yg  
<Doos> so only 1/4 lets light through  
<Scotsmaninfrance> Hi will  
<Doos> hi Will  
<Will> hey  
Feb 13 00:34:41 --> Annie (~d254c34e@bopm.chatjunkies.org) has joined #yg  
<Doos> ANNIE!  
<Annie> Hello  
<gemma> doos, 3/4 as in physical or 3/4 transparency  
<Annie> are we here today  
<Scotsmaninfrance> This is like the four quadrants on the last lesson...Annie hi  
<gemma> got it thanks  
<Annie> hello  
<Doos> it causes the light to spin in polarized light  
<Will> hi  
<Doos> so not linear  
<Scotsmaninfrance> spin while retaining its parrallel nature?  
<Doos> but as a spiral

<Annie> hi guys, can you hear me  
<Scotsmaninfrance> Hi Annie  
<gemma> yes annie  
<Doos> no Annie :)  
<Will> yep  
<Scotsmaninfrance> loyd and clear  
<Annie> what  
<Scotsmaninfrance> loud  
<gemma> doos, is this the wiggly light of last week?  
<Annie> sorry, i am late, been very sick  
<Doos> no gemma, this is weirder  
<gemma> ok  
<Scotsmaninfrance> Sorry doos can I backtrack a little  
<Doos> yes  
<Annie> Hey, I see a new guest, Will,  
<Annie> Hi there Will, welcome  
<Scotsmaninfrance> how can light be polarised (in one plane) and be spinning...surely spinning assumes changing plane  
<Will> hi, Annie  
<gemma> yes, doos, i was confused there too  
<Doos> well, light travels in all directions  
<Scotsmaninfrance> yes  
<Doos> holdon, potty  
<Annie> Doos, i am half way loaded on this screen,  
<Annie> you are not getting my messages, are you  
<Doos> annie,use trillian  
<Scotsmaninfrance> we are getting them Annie  
<Annie> you are  
<Scotsmaninfrance> I am  
<Scotsmaninfrance> :)  
<Annie> Frank, you ok today  
<Annie> and i am not  
<Scotsmaninfrance> did you fix your pute probs Annie?  
<Scotsmaninfrance> Yes I'm good...bit of a cold is all...you poorly?  
<Annie> sort of, deleted all, and installed some fancy anti virus thingo  
<Scotsmaninfrance> mourning your lost data?  
<Annie> dunno what i done though, but seems to be working  
<Scotsmaninfrance> good...now if we can get you up and working again  
<gemma> annie, you are always welcome to ask me when you have a problem. i work with viruses and spyware all the time  
<Annie> yeah, thanks i knowgeema  
<Annie> i had a hard week this week  
<gemma> i clean out at least two a week and don't have to redo the pc  
<Annie> and been turning off the computer  
<gemma> oh ok  
<Scotsmaninfrance> Doos is doing the circular polarisation thing Annie  
<Doos> Annie: try to connect with trillian  
<Doos> let me try to start over  
<Doos> normal daylight is circular  
<Scotsmaninfrance> ok  
<Doos> it can be transformed to polarized light in many ways  
<Will> Light in the form of a plane wave in space is said to be linearly polarized. Light is a transverse electromagnetic wave, but natural light is generally unpolarized, all planes of propagation being equally probable. If light is composed of two plane waves of equal amplitude by differing in phase by

90°, then the light is said to be circularly polarized. If two plane waves of differing amplitude are related in phase by 90°, or if the relative phase is other

<Doos> abosortion .. reflection etcetc

<Annie> hang on brb, i hope

<gemma> is this the "spiral" effect will?

<Will> yes

<Annie> wow, you got a helper doos

<Doos> thank god

<Scotsmaninfrance> lol

Feb 13 00:46:12 \*Doos hands will a beer

<Will> lol

<Annie> sorry, you all have to excuse me - i am not much help these days

<Doos> doesnt matter Annie, you just sit there and look pretty :)

<Scotsmaninfrance> be assured Annie...your always helpful

<gemma> and pretty

<Will> I'll drink to that

<Will> :-)

<Doos> who are you will?

<Will> William Hill

<Will> used to spend lots of time on YG

<Will> not so much lately

<Doos> under "william"

<Doos> ?

<Scotsmaninfrance> well welcome back

<Will> yes

<Will> thnx

<Doos> now that we caught you in the act Will, could you explain right-left handed enantiomorphism?

<Scotsmaninfrance> if light is composed of two plane waves of equal magnetude but differing in phase by 90 degrees

<Will> hang on, brb

<Scotsmaninfrance> wouldn't they just be two flat planes ...unable to pass through both plates of a polariscope?

<Doos> well, you use only one polarizer

<Doos> not two

<Scotsmaninfrance> that would only stop one plane

<Scotsmaninfrance> the analyser would stop the second

<Doos> the incident light makes a circular motion

<Scotsmaninfrance> explain incident

<Doos> the original lightsource

<Scotsmaninfrance> ah ok

<Doos> (not polarized)

<Doos> have you ever seen a dna string animation?

<Will> enatiomorphism{: The reflection (reflection) by the left-handed is related with object which creates and right-handed object as the enantiomorphism. Rotary axis (Rotation Axis)

<Will> The N the rotary axis (N-fold rotation axis) if 2 ̸0 /n as it rotates which one direction toward the axis, when the shape of decision is identical, N rotation wet that axis, it calls a decision. As diad axis and triad axis and tetrad axis and hexad axis it calls 2 rotary axes, 3 rotary axes, 4 rotary axes and 6 rotary axes.

<Scotsmaninfrance> but is it circlar (like spiral) or is it just radiating at 90 degrees from the direction of propagation (like a kids drawing of the sun in cross section)

<Will> know what a sinus wave looks like in occilloscope?  
<Doos> we need to go back a few steps  
<Scotsmaninfrance> yes  
<Annie> Will, that is a preety advanced explanation.  
<gemma> i need to go back to college to understand this one lol  
<Annie> Doos, maybe use Quartz to explain,  
<Doos> anistropic materials split light into two rays (uniaxial)  
<Will> think of te waves looking like that and occuring perpandicular to each other - or tangent  
<Doos> Annie: oh please do ..  
<Doos> lol  
<Annie> i have a picture of it, but i can't slip pictures here either  
<Scotsmaninfrance> OK I got the two perpindicular waves  
<Will> they are tangently arranged along the line of travel on a single axis  
<Scotsmaninfrance> but still not circular (except maybe the Tangent wave visualisation  
<Scotsmaninfrance> yes  
<Annie> the waves go spiraraly in the quartz like a stair case  
<Will> so that the waves are vibrating in a straight line but each is tangential to the other polarizations  
<Scotsmaninfrance> yes  
<Annie> enantimorphysm (didn't spell correcty) grows in a circular motion this creating the left and right which give the two rotation  
<Doos> lol two engineers have a pow wow  
<Annie> i think the enginers would understand this  
<Will> [hyperphysics.phy-astr.gsu.edu/hbase/phyopt/polclas.html](http://hyperphysics.phy-astr.gsu.edu/hbase/phyopt/polclas.html)  
<Scotsmaninfrance> lol  
<Doos> okay people, now we want this in plane English  
<Scotsmaninfrance> so the origin of the circular light paths is in the growing habit of the crystal?  
<Will> look at this link to see what I mean [http:\\hyperphysics.phy-astr.gsu.edu/hbase/phyopt/polclas.html](http://hyperphysics.phy-astr.gsu.edu/hbase/phyopt/polclas.html)  
<Scotsmaninfrance> I'm on trillion it doesn't come up as a link  
<Annie> ok lets keep it simple  
<Will> just copy and past into your browser  
<Doos> its <http://>  
<Will> sorry  
<Scotsmaninfrance> I can't copy text from the screen  
<Will> look at this link to see what I mean <http://hyperphysics.phy-astr.gsu.edu/hbase/phyopt/polclas.html>  
<Will> try it now  
<Doos> need tea, then we'll do it in English  
<gemma> can be as easy to understand as that page makes it seem but i actually kind of get what you are talking about from it, thank will  
<Will> ok  
<gemma> i meant to type can't be as easy. sorry  
<Scotsmaninfrance> You should have studied electricity Gemma  
<gemma> i do give a lot of static  
<Scotsmaninfrance> I've seen the drawings before (or very similar)  
<Scotsmaninfrance> when studying electro magnetism  
<Scotsmaninfrance> and left and right hand rules  
<Scotsmaninfrance> Thanks will  
<Will> diffent phenomenom of the same thing light is simply a different spectrum of electromagnetism

<Will> different  
<Scotsmaninfrance> yes I see that.....funny how a little drawing can help  
<Will> yep  
<Doos> but do we understand it?  
<Will> picture ... thousand words  
<Scotsmaninfrance> I do in electromagnetic terms ...I'm trying to visualise it into light now  
<Scotsmaninfrance> They use it to work out motor directions etc  
<Will> polarization simply means that a particular medium causes light to mostly vibrate in a particular sinus rythme with particular intensity in a particular set of directions along the line of travel  
<Scotsmaninfrance> and as long as both planes share the same amplitude the result is circular  
<Will> planar polarization or circular  
<Will> yes - same amplitude and 90 degree rotation  
<Scotsmaninfrance> where does the spiral come in?  
<Will> it is simply a way of describing the effects of having the 90 degree alternating rotations in the amplitude of the light waves as they travel along the axis of travel  
<Will> theree are other terms for waves that are not 90 degrees  
<Will> there  
<Will> such as eliptical  
<Doos> elliptiacl  
<Doos> heh  
<Will> yep  
<Scotsmaninfrance> Thought that was when the amplitudes differed  
<Scotsmaninfrance> at least in the drawings  
<Doos> that is caused by the slow slow and the fast axis not being at 90° to the polarizer  
<Doos> uh 45°  
<Will> right  
<Scotsmaninfrance> explain slow slow and fast axis  
<Doos> slow slow means slow  
<Scotsmaninfrance> lol...ok  
<Will> the waveforms are actually rotating slowly around the axis of travel  
<Scotsmaninfrance> ok  
<Will> visually  
<Doos> remember the ordinary and extra-ordinary ray  
<Scotsmaninfrance> ah yes  
<Will> Doos - right  
<Scotsmaninfrance> You getting this Gemma?  
<Will> refraction aqnd reflection  
<Doos> one travels faster than the other .. the samurai egg example  
<Will> and  
<gemma> im following pretty well, thanks  
<Scotsmaninfrance> yes I got it...:)  
<Annie> ok back  
<Annie> ok back  
<Doos> wb Annie  
<Will> cool Annie  
<Annie> Doos, this is not working and trillian is not connecting  
<Annie> i have no idea what going on, even my computer is stuffed  
<Doos> holdon Annie, let me whip up something for you  
<Scotsmaninfrance> no bdsm in the room doos  
<Doos> heh

<gemma> while doos is off to the rescue, i have a question will and frank  
<Annie> lol  
<Annie> lol  
<Will> soot  
<Will> shoot  
<Scotsmaninfrance> lol  
<gemma> when i look at the picture of the circular light  
<gemma> if i visually connect the tops of the -- is it amplitudes?  
<Will> wave tops  
<gemma> as i go from one to the otehr and around it does seem to create a spiral  
<gemma> yeah wave tops  
Feb 13 01:18:11 --> Guest (~Guest@cp59312-a.tilbul.nb.home.nl) has joined #yg  
<Will> yes?  
<Guest> hi  
<Will> hi  
<Scotsmaninfrance> hi guest  
<Guest> its me Doos  
<gemma> yes? to doos or to me will  
<Scotsmaninfrance> Are you in disguise?  
<Will> to you, Gemma  
<Guest> okay annie, go to <http://yey.be/chat/login.html> .. if you get a funny popup, just click "yes"  
<-- Guest has quit (Client Quit)  
<gemma> as i go from the top of one to the other and around it does seem to create a spiral  
<Will> yep, it does  
<gemma> so i am understanding it then  
<Will> yes  
<gemma> sort of lol  
<Will> lol  
Feb 13 01:20:37 --> YG401 (~Annie@78.cust25.vic.dsl.ozemail.com.au) has joined #yg  
<gemma> i used to be a bit active with astronomy so some of this is coming back  
<Doos> hi annie  
<Scotsmaninfrance> You see the arrows Gemma  
<gemma> arrows in what frank  
<gemma> oh you mean in the diagram yes  
<YG401> Hi  
<Scotsmaninfrance> In the drawing. The spiral does one complete revolution every wavelngth  
<gemma> let me look at that  
<YG401> is this new  
<Scotsmaninfrance> Will is the direction of rotation random or can it be controlled?  
<gemma> yes  
<Doos> does this work better for you Annie?  
<YG401> any smilies in here  
<Doos> no :)  
<YG401> well it seems ok,  
<Will> it is controlled by the medium the light is passing through  
<YG401> hey doos, some security thing comes on  
<Doos> just click "yes"

<Scotsmaninfrance> so it's the growth characteristics of the crystal which determine direction?  
<gemma> is this where we get into chemistry makeup of the medium etc?  
Feb 13 01:23:22 --> MoDo (~45a9358e@bopm.chatjunkies.org) has joined #yg  
<Doos> hi MoDo  
<gemma> MODO!!!  
<MoDo> Wow!! Look at all you people!!  
<Scotsmaninfrance> Hi Modo  
<YG401> Hi modo, welcome, you back from Tucson are you  
<Will> it is actually the molecular level first then the crystalline structure next  
<MoDo> Have I missed much? ;-)  
<Scotsmaninfrance> loads  
<Scotsmaninfrance> :)  
<Doos> and so have I  
<Doos> :)  
<YG401> yeah, where have you been  
<gemma> yes, will. i saw a great picture of the structure of calcite today that finally is making this all make sense  
<MoDo> Did you get me anything for Valentine's Day, Doos??  
<YG401> hmm.. a red rose for modo , Doos ?? :-)  
<Will> cool, Gemma  
<Doos> its not the 14th yet  
<MoDo> Okay, I'll wait.  
<YG401> you have to wait a couple of days for that modo  
<MoDo> I bought I piece of emerald at the Tucson show so I could study the crystal habit.  
<gemma> so this discussion tonight is just a continuation of polarization discussion and will continue -- doos, annie, will anybody  
<Scotsmaninfrance> So back to the original question of enantiomorphism  
<MoDo> ???  
<Scotsmaninfrance> lol  
<Doos> YG401: type in "/nick annie2"  
<MoDo> Is that a real word?  
<YG401> annie  
<Scotsmaninfrance> yes I know...me too till a few minutes ago  
<gemma> yes, i read it today in deitrich  
<MoDo> Shame I couldn't get here sooner!  
<YG401> "/nick annie  
<Scotsmaninfrance> Yes but spelling???  
<gemma> cant say i understood a word of it though -- geesh  
<YG401> "/nick annie2"  
<Doos> enantiomorphism  
<MoDo> I hope this will be logged!  
<Scotsmaninfrance> have you seen the picture inread's gemmology gemma  
<Doos> without the quotes YG401  
<YG401> i can;t do it  
<Scotsmaninfrance> that shows the quartz crystal and then the same crystal in reverse?  
<gemma> where in read?  
<gemma> and modo: enantiomorphism -- the relation of opposition between crystals or molecules that are reflections of one another  
<Scotsmaninfrance> in the crystallography section I think ....brb  
<gemma> you mean two fold  
<Doos> YG401: type in: /nick annie2

<Scotsmaninfrance> page 39  
<Scotsmaninfrance> 2nd edition  
<MoDo> Is this one of those "you really don't have to know, but it would be nice to" things?  
Feb 13 01:29:05 --- YG401 is now known as annie2  
<Doos> heh, well done  
<Scotsmaninfrance> "example of enantiomorphism"  
<annie2> thanks  
<gemma> ok. left and right hand  
<gemma> cant say i understand it yet but i know what you are talking about  
<Scotsmaninfrance> Yes Modo...but with both Gemma and I here...well get used to it I guess...lol  
<annie2> hey modo, did you get the diamond grading job yet  
<gemma> so its sort of reverse two fold?  
<MoDo> :-)  
<Scotsmaninfrance> the small face called the s face  
<gemma> congrats modo  
<Scotsmaninfrance> is on the right on one crystal and the left on the other  
<gemma> yes  
<Doos> yes gemma, actually quartz decides to be left or right handed at birth  
<gemma> so did i  
<Scotsmaninfrance> This is what determines the direction of rotation of the light I think...Will?  
<Will> yep  
<Doos> quartz is either left or right, never both  
<annie2> when you see both its a fully double terminated crystal,  
<MoDo> Hey, Gemma: Is this the Will you were talking about on the forum?  
:-)  
<gemma> no  
<annie2> Modo, you haven;t answered me ??  
<Scotsmaninfrance> Before you arrived will, Annie oos said one was normal for natural athe other usual for synthetic  
<gemma> and ignore that will, its an old joke  
<Scotsmaninfrance> who knows which is which  
<MoDo> I'm sorry. I must have missed the question! It all goes by so fast.  
<Will> ok - :-)  
<annie2> I asked you if you got the job Modo  
<annie2> for diamond grading  
<annie2> thingo at GIA  
<MoDo> Oh...still waiting to hear.  
<annie2> oh right  
<MoDo> I wish they'd hurry...school starts the 22nd.  
<gemma> fully double terminated crystal -- any one have a pix of this  
<Scotsmaninfrance> In the double terminated crystal...will it show the inverse rotation thingy  
<annie2> yes  
<gemma> sounds like a double-ended horned dragon  
<annie2> isn't there a pic in Peter Read Book, Gemma  
<gemma> of the double terminated?  
<annie2> also Webster should have it, but my one is missing that page  
<Scotsmaninfrance> Theres a picture in the d'arcy treatise on crystallography  
<Doos> you ripped it out in horror annie2?  
<gemma> ok annie, i look it up. i have a ton of books so

<Scotsmaninfrance> on the awesomerocks site  
<annie2> lol  
<gemma> k ill look thanks frank  
<annie2> or i can scan some  
<annie2> for you gemma  
<Doos> Will: do you know how to visualize enantiomorphism?  
<Will> <http://www.astralaspects.biz/ishop/730/shopscr362.html> - double terminated quartz picture  
<annie2> and then you colour it in and will be nicer  
<Scotsmaninfrance> lol...you teach primary three gemmology Annie  
<Will> doos not really  
<Scotsmaninfrance> do we get marks of if we go over the lines  
<annie2> Frank,  
<Scotsmaninfrance> sorry miss  
<annie2> what was your question Frank, sorry didn't get that  
<Scotsmaninfrance> nice pic will but no s face on the crystal  
<gemma> <http://www.exceptionalminerals.com/halloffame10.htm>  
<Will> 2ru  
<Scotsmaninfrance> I was just joking about you saying we can do our colouring in  
<gemma> thats the only one i can quickly google  
<Will> tat is a better one, Gemma  
<gemma> :-)  
<annie2> no no I wasn't joking,  
<Will> that  
<gemma> annie i quite right  
<annie2> its the best way if you want to learn forms and habbits  
<gemma> it helps separate the ideas in one's mind  
<annie2> i get them to colour it in always as an assignment  
<annie2> lol  
<gemma> or muscles and bones lol  
<Scotsmaninfrance> ah...ok I'll try it  
<gemma> im impressed you sugges that annie  
<annie2> because remember there are 2 or more forms present in quartz  
<annie2> sure, why not gemma  
<annie2> its the ultimate learning tool  
<gemma> because my sport massage therapy master ridiculed me for coloring the muscles in my anatomy charts  
<annie2> but don't use texters, just colouring pencils, lol  
<gemma> she said it was for babies  
<Scotsmaninfrance> nice page gemma...it'll download in half an hour or so  
<Scotsmaninfrance> lol  
<gemma> you butthead frank  
<annie2> :)  
<Scotsmaninfrance> 56kps and were off  
<Doos> now now, play nice lovebirds  
<gemma> oh oh international insults  
<Scotsmaninfrance> well it's not fair  
<gemma> i told you before i understand electricity fairly well because i naturally cause static  
<Scotsmaninfrance> she's got a sport massage therapy master  
<Scotsmaninfrance> and horses  
<Scotsmaninfrance> I get guinea pigs  
<Scotsmaninfrance> and chickens

<Doos> Will: can we count on some support from you in the future, you saved my butt tonight  
<gemma> no i am a sport massage therapy practitioner :-)  
<Will> yes  
<Doos> great, thanks  
<Will> ok  
<annie2> oh, wow thanks  
<Scotsmaninfrance> is that legal?  
<gemma> yes, this was great  
<Scotsmaninfrance> lol  
<gemma> of course.  
<Scotsmaninfrance> thanks will.....you were great tonight  
<Will> no problemn  
<Will> problem  
<gemma> now i have more damn links to organize in my gem bookmarks that never gets done and is really getting out of hand!  
<Doos> anyone has any questions on polarization left? any ..  
<gemma> yes. you mean we're done?  
<annie2> there is silence  
<annie2> you know its funny  
<gemma> i mean with the entire subject  
<Doos> only when it is understood  
<Scotsmaninfrance> The eleptical thing is the same theory with different amplitudes or angles different from 90 degrees?  
<Doos> yes Scotsmaninfrance  
<Scotsmaninfrance> ty.....yes I think I've got it  
<Doos> well the angles will be at  $90^\circ$   
<Doos> the amplitudes will differ  
<Scotsmaninfrance> Annie look at the tansy crystal on gemma's page.....wow  
<Scotsmaninfrance> ok  
<gemma> gemma make good find :-)  
<Doos> gemma .. you got it all?  
<annie2> where  
<gemma> i have a fairly good grasp of the discussion tonight  
<Scotsmaninfrance> yes indeed.....it's still downloading.....was there a double terminated quartz there with s faces.....?  
<gemma> but i have to read up to put it all together  
<Doos> and polarization in general gemma?  
<gemma> yeah the quartz is there  
<gemma> that is where i still have to read up doos  
<Scotsmaninfrance> Has your phase plate arrived yet doos?  
<Doos> ah okay  
<gemma> i will have questions on it until i read it thoroughly  
<Doos> not yet Scotsmaninfrance  
<gemma> put go ahead with the next topic and dont worry about me  
<Scotsmaninfrance> pity.....then you can take pics  
<gemma> i was reading about them today doos!  
<gemma> in e.wood's crystals and light  
<Scotsmaninfrance> The other two chats on polarisation cover it better than any book I've got Gemma...start there  
<-- Annie has quit (Quit: CGI:IRC (Session timeout))  
<gemma> i read them today, frank  
<Scotsmaninfrance> ah ok.  
<gemma> i wanted to catch up to what was being discussed  
<Doos> MoDo: you have a good grasp of the topic?

<gemma> which is what led me to the wood book  
<MoDo> What topic??  
<Doos> lol. polarization  
<Scotsmaninfrance> you mean the wave plate gemma?  
<gemma> modo is probably drooling over the tanzy pix  
<MoDo> I think I understand, but I'm going to read up on the logs.  
<Scotsmaninfrance> me too  
<gemma> yes sir, i do  
<MoDo> Gemma: I was doing that earlier!  
<Doos> so next week we'll start doing "colour in gemstones" .. everyone agree?  
<Will> you can get a good concept of polarization by looking at a basic text on lasers  
<annie2> sure, more colouring  
<Doos> wakeup annie2  
<MoDo> Sharpen those crayons!  
<Doos> did you hear the "ping" annie2?  
<annie2> yeah i did  
<gemma> will give be a break! im not that friggin smart lol  
<Will> ok  
<Will> lol  
<Doos> annie2: if I type "wakeup" it gives you a waky call  
<gemma> i read today where some synthetics were developed during laser research  
<Will> light amplification through stimulated emssion of radiation - laser  
<gemma> yes  
<annie2> LASER  
<Scotsmaninfrance> yes the twinning in natural crystals messes em up for lasers I think  
<annie2> HOW  
<Will> stimulation is like bouncing back and foth between two mirrors and the letting the light escape in a fashion which has all of the weaves occuring in a plane  
<Will> forth  
<gemma> focused beam, right?  
<Will> then  
<Will> right  
<annie2> HELLO,  
<Will> the focus is caused by the ploarization of the light  
<Scotsmaninfrance> lolhi Annie  
<Will> polarization  
<Scotsmaninfrance> are you shouting at us?  
<annie2> no  
<annie2> i just messed up  
<Scotsmaninfrance> lol...phew thought I'd been caught  
<Doos> you were yelling at us annie2, I saw it .. now apologize  
<annie2> i am practising colour in gems  
<Scotsmaninfrance> lol  
<annie2> I apologise if I was yelling, don't like to do that often  
<Will> gotta jet - see you guys later  
<Doos> okay, you get away with it today  
<-- Will has quit (Quit: CGI:IRC)  
<Doos> night wil and thanks again  
<Scotsmaninfrance> Can I play?...Cya Will...nice one thanks  
<Doos> too late

<annie2> oh thanks Will  
<Scotsmaninfrance> damn that always happens when I'm creative  
<Doos> heh  
<MoDo> How are you doing that?  
<gemma> whose got the crayons?  
<Scotsmaninfrance> 8-0  
<gemma> ok, im outta here. my cats are screaming and my mom is passing out from hunger.  
<MoDo> Bye, Gemma.  
<Doos> okay gemma, till soon again  
<gemma> any suggestions on reading ahead for the color in gems next week  
doos  
<gemma> hey, my foot is in the door yet  
<Doos> colouring elements  
<Scotsmaninfrance> help my screens gone funny  
<gemma> like in read or such?  
<Doos> I dont have Read  
<gemma> too much drambuie frank  
<Doos> heh  
<gemma> well, what do you have, silly man  
<-- Scotsmaninfrance (user@AC8747BD.ipt.aol.com) has left #yg  
<MoDo> Was it something you said?  
<gemma> guess that pissed him off lol  
<Doos> yes MoDo  
<gemma> its always something i say modo, the static thing lol  
<MoDo> lol  
<MoDo> What's drambuie?  
<gemma> i told you today, its the pandoras box. bad bad move there.  
<Doos> some liquer  
Feb 13 01:57:42 --> Scotsmaninfrance (user@AC8747BD.ipt.aol.com) has joined #yg  
<gemma> frank, tell modo what drambuie is  
<gemma> and don't tell her you hate it either  
<Scotsmaninfrance> it's a very nice malt whisky  
<gemma> after a night of overdosing on meade ill take that any time  
<Scotsmaninfrance> or maybe a malt liquer  
<Scotsmaninfrance> very nice  
<gemma> liquer i belive  
<MoDo> Oh...I don't drink, so I don't know all that stuff.  
<gemma> with brandy  
<Scotsmaninfrance> if you get the chance try a glayva...this is special  
<gemma> will put that in my memory banks, master  
<annie2> Guys, i need to go, excuse me  
<Scotsmaninfrance> I didn't know they mixed it with brandy  
<gemma> good night annie  
<annie2> i am sure you all have lots to talk about  
<MoDo> Bye, Annie  
<Scotsmaninfrance> love ya Annie....a bientot  
<gemma> i could be full of crap on that frank  
<gemma> dont quote me  
<annie2> Hey modo, how about writing a report on tuscon  
<Scotsmaninfrance> lol...every chance I get  
<Scotsmaninfrance> yp Modo  
<MoDo> There wouldn't be much to write, Annie.  
<annie2> Thanks Frank,

<annie2> I am sure there would, be,  
<Doos> hey annie2, thanks for making it tonight  
<annie2> there would be i mean  
<gemma> frank, "flavored with herbs and heather honey"  
<Scotsmaninfrance> visual delights to cool the weary eye  
<annie2> I was there 2 years ago and throughly enjoyed the huge  
spectaluations of gems  
<MoDo> I only had two days to see everything, and I had my mother with me.  
She tires quickly since she's on the chemo.  
<gemma> sorry to hear that modo  
<Scotsmaninfrance> did she get an alaalexandrite?  
<MoDo> Yes, I really didn't get to see everything I wanted to. Maybe next  
year.  
<gemma> ok. speaking of moms. mine is going to kill me if i dont get food  
cooking  
<annie2> see you all later  
<gemma> bye all  
<Scotsmaninfrance> see you  
<Doos> bye annie2  
<-- gemma (~406c515f@bopm.chatjunkies.org) has left #yg  
<Scotsmaninfrance> bye gemma  
<MoDo> Bye you two.  
<Doos> bye gemm  
<Doos> a  
<MoDo> lol  
<-- annie2 has quit (Quit: annie2)

Feb 13 02:33:32 --- Disconnected ().  
\*\*\*\* ENDING LOGGING AT Sun Feb 13 02:33:32 2005